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Saha, A.K.; Mazumdar, J.N.;
[Nanobioscience, IEEE Transactions on](#)
Volume 2, Issue 2, June 2003 Page(s):89 - 93
Digital Object Identifier 10.1109/TNB.2003.813921
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Maslennikov, V.A.; Ustinov, S.M.;
[Power Systems, IEEE Transactions on](#)
Volume 12, Issue 4, Nov. 1997 Page(s):1419 - 1424
Digital Object Identifier 10.1109/59.627836
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Relevance scal

1 [Parallel and distributed systems and networking: A particle swarm model for swarm-based](#)



[networked sensor systems](#)

B. Anthony Kadvach, Gary B. Lamont

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(614.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index term](#)

Swarm behavior as demonstrated by flocks of birds, schools of fish, and swarms of insects provide a useful method for implementing a distributed network of mobile sensor platforms. Such mobile sensor systems are useful for various search or surveillance activities. Swarm behavior ensures separation between swarm members while enforcing a level of cohesion. These two properties, when considered in the context of sensors and wireless communications, provide for low redundancy coverage a ...

Keywords: distributed processing, networking, particle swarms, robotics, wireless

2 [A new networking model for biological applications of ad hoc sensor networks](#)

Zygmunt J. Haas, Tara Small

February 2006 **IEEE/ACM Transactions on Networking (TON)**, Volume 14 Issue 1

Publisher: IEEE Press

Full text available: pdf(703.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we introduce the Shared Wireless Infostation Model (SWIM), which extends the Infostation model by incorporating information replication, storage, and diffusion into a mobile ad hoc network architecture with intermittent connectivity. SWIM is able to reduce the delay of packet delivery at the expense of increased storage at the network nodes. Furthermore, SWIM improves the overall capacity-delay tradeoff by only moderately increasing the storage requirements. This tradeoff is examined ...

Keywords: SWIM, animal monitoring, biological data acquisition, capacity-delay tradeoff, data dissemination, delay-tolerant networks, epidemic modelling, epidemic routing, flooding, sensor networks, sparse networks, stochastic routing, store-carry-forward, wireless infostation model

3

[Oral presentation session 1: In network modeling, processing, & optimization: Distributed](#)



regression: an efficient framework for modeling sensor network data

Carlos Guestrin, Peter Bodi, Romain Thibau, Mark Paski, Samuel Madde

April 2004 **Proceedings of the third international symposium on Information processing in sensor networks IPSN '04**

Publisher: ACM Press

Full text available: pdf(1.56 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We present *distributed regression*, an efficient and general framework for *in-network* modeling of sensor data. In this framework, the nodes of the sensor network collaborate to optimally fit a global function to each of their local measurements. The algorithm is based upon *kernel linear regression*, where the model takes the form of a weighted sum of local basis functions; this provides an expressive yet tractable class of models for sensor network data. Rather than transmitting ...

Keywords: distributed algorithms, machine learning, regression, wireless sensor networks

4 Synchronization: Firefly-inspired sensor network synchronicity with realistic radio effects



Geoffrey Werner-Allen, Geetika Tewari, Ankit Patel, Matt Welsh, Radhika Nagpal

November 2005 **Proceedings of the 3rd international conference on Embedded networked systems SenSys '05**

Publisher: ACM Press

Full text available: pdf(564.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Synchronicity is a useful abstraction in many sensor network applications. Communication scheduling, coordinated duty cycling, and time synchronization can make use of a synchronicity primitive that achieves a tight alignment of individual nodes' firing phases. In this paper we present the *Reach Firefly Algorithm (RFA)*, a decentralized synchronicity algorithm implemented on TinyOS-based nodes. Our algorithm is based on a mathematical model that describes how fireflies and neurons synchronize.

Keywords: biologically inspired algorithms, pulse-coupled oscillators, synchronization, wireless networks

5 Three-dimensional object recognition



Paul J. Besl, Ramesh C. Jain

March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(7.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

A general-purpose computer vision system must be capable of recognizing three-dimensional (3D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses concepts associated with this problem, and reviews the relevant literature. Because range images (depth maps) are often used as sensor input instead of intensity images, techniques for obtaining range data, processing, and characterizing range data are also surveyed.

6 Security: Analyzing and modeling encryption overhead for sensor network nodes



Prasanth Ganesan, Ramnath Venugopalan, Pushkin Peddabachagari, Alexander Dean, Frank Muelle, Mihail Sichitiu

September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available: pdf(254.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent research in sensor networks has raised security issues for small embedded devices. Security concerns are motivated by the deployment of a large number of sensory devices in the field. Limitations in processing power, battery life, communication bandwidth and memory constrain the applicability of existing cryptography standards for small embedded devices. A mismatch between wide arithmetic

security (32 bit word operations) and embedded data bus widths (often only 8 or 16 bits) combi

Keywords: analysis, embedded systems, encryption overhead, model, sensor networks

7 Embedded applications: Encryption overhead in embedded systems and sensor network n modeling and analysis



Ramnath Venugopalan, Prasanth Ganesan, Pushkin Peddabachagari, Alexander Dean, Frank Muelle Mihail Sichitiu

October 2003 **Proceedings of the 2003 international conference on Compilers, architecture synthesis for embedded systems**

Publisher: ACM Press

Full text available: pdf(293.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Recent research in sensor networks has raised issues of security for small embedded devices. Se concerns are motivated by the deployment of a large number of sensory devices in the field. Lim in processing power, battery life, communication bandwidth and memory constrain the applicabi existing cryptography standards for small embedded devices. A mismatch between wide arithme security (32 bit word operations) and embedded data bus widths (often only 8 or 16 bits) combi

Keywords: embedded systems, encryption, security, sensor networks

8 Using Ada to maximize verbatim software reuse



M. Stark, E. Booth

January 1989 **Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment**

Publisher: ACM Press

Full text available: pdf(1.60 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Model-based object recognition in dense-range images—a review



Farshid Arman, J. K. Aggarwal

March 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(3.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

The goal in computer vision systems is to analyze data collected from the environment and deriv interpretation to complete a specified task. Vision system tasks may be divided into data acquisi low-level processing, representation, model construction, and matching subtasks. This paper pre comprehensive survey of model-based vision systems using dense-range images. A comprehens survey of the recent publications in each subtask pertaining to dense-range image object recogn

Keywords: 3D object recognition, 3D representations, CAD-based vision, dense-range images, understanding

10 Network Provisioning: Calibration as parameter estimation in sensor networks



Kamin Whitehouse, David Culler

September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor net and applications**

Publisher: ACM Press

Full text available: pdf(260.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We describe an ad-hoc localization system for sensor networks and explain why traditional calibr methods are inadequate for this system. Building upon previous work, we frame calibration as a

parameter estimation problem; we parameterize each device and choose the values of those parameters that optimize the overall system performance. This method reduces our average error 74.6% without calibration to 10.1%. We propose ways to expand this technique to a method of autocalibration for lo ...

Keywords: actuator, auto calibration, calibration, parameter estimation, relative calibration, sensor networks

11 Sensor deployment and target localization in distributed sensor networks



Yi Zou, Krishnendu Chakrabarty

February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(294.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The effectiveness of cluster-based distributed sensor networks depends to a large extent on the coverage provided by the sensor deployment. We propose a virtual force algorithm (VFA) as a deployment strategy to enhance the coverage after an initial random placement of sensors. For a number of sensors, the VFA algorithm attempts to maximize the sensor field coverage. A judicious combination of attractive and repulsive forces is used to determine the new sensor locations that improve ...

Keywords: Cluster-based sensor networks, cluster head, sensor field coverage, sensor placement, virtual force

12 Performance aware tasking for environmentally powered sensor networks



Aman Kansal, Dunny Potter, Mani B. Srivastava

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems SIGMETRICS 2004/PERFORMANCE 2004**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(384.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The use of environmental energy is now emerging as a feasible energy source for embedded and wireless computing systems such as sensor networks where manual recharging or replacement of batteries is not practical. However, energy supply from environmental sources is highly variable over time. Further, for a distributed system, the energy available at its various locations will be different. These variations strongly influence the way in which environmental energy is used. We present a harvesting ...

Keywords: energy harvesting, performance guarantees, process scheduling

13 A qualitative simulation approach for fuzzy dynamical models



Andrea Bonarini, Gianluca Bontempi

October 1994 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(1.63 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article deals with simulation of approximate models of dynamic systems. We propose an approach that is appropriate when the uncertainty intrinsic in some models cannot be reduced by traditional identification techniques, due to the impossibility of gathering experimental data about the system itself. The article presents a methodology for qualitative modeling and simulation of approximate known systems. The proposed solution is based on the Fuzzy Sets theory, extending the power of

Keywords: simulation of approximate dynamical models, simulation of fuzzy dynamical models

14 Algorithms for multihop networks II: Initializing newly deployed ad hoc and sensor networks

 Fabian Kuhn, Thomas Moscibroda, Roger Wattenhofer
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available:  pdf(367.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A newly deployed multi-hop radio network is unstructured and lacks a reliable and efficient communication scheme. In this paper, we take a step towards analyzing the problems existing during the initialization phase of ad hoc and sensor networks. Particularly, we model the network as a radio hop quasi unit disk graph and allow nodes to wake up asynchronously at any time. Further, nodes do not feature a reliable collision detection mechanism, and they have only limited knowledge about the network ...

Keywords: ad-hoc networks, asynchronous wake-up, clustering, distributed algorithms, dominating algorithms, initialization, sensor networks

15 Synchronization: Estimating clock uncertainty for efficient duty-cycling in sensor networks

 Saurabh Ganeriwal, Deepak Ganesan, Hohyun Shim, Vlasios Tsiatsis, Mani B. Srivastava
November 2005 **Proceedings of the 3rd international conference on Embedded networked systems SenSys '05**

Publisher: ACM Press


Full text available:  pdf(476.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Radio duty cycling has received significant attention in sensor networking literature, particularly in the form of protocols for medium access control and topology management. While many protocols have claimed to achieve significant duty-cycling benefits in theory and simulation, these benefits have not translated to practice. The dominant factor that prevents the optimal usage of the radio in real deployment settings is time uncertainty between sensor nodes. This paper proposes an uncertainty

Keywords: clock drift, polynomial model estimation, rate adaptation, sampling period, sensor networks, time synchronization

16 Special section on sensor network technology and sensor data management: An environment for a sensor network to determine drinking water quality and security

 Anastassia Ailamaki, Christos Faloutsos, Paul S. Fischbeck, Mitchell J. Small, Jeanne VanBriesen
December 2003 **ACM SIGMOD Record**, Volume 32 Issue 4

Publisher: ACM Press

Full text available:  pdf(72.40 KB)


Additional Information: [full citation](#), [abstract](#), [references](#)

Finding patterns in large, real, spatio/temporal data continues to attract high interest (e.g., sales of products over space and time, patterns in mobile phone users; sensor networks collecting operational data from automobiles, or even from humans with wearable computers). In this paper, we describe an interdisciplinary research effort to couple knowledge discovery in large environmental databases with biological and chemical sensor networks, in order to revolutionize drinking water quality and ...

17 Explore multi-resolution views with PTZ and coordinated camera networks: Cooperative visual surveillance using model predictive control

 Vivek K. Singh, Pradeep K. Atrey
November 2005 **Proceedings of the third ACM international workshop on Video surveillance sensor networks VSSN '05**

Publisher: ACM Press

Full text available:  pdf(1.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Active cooperative sensing with multiple sensors is being actively researched in visual surveillance. However, active cooperative sensing often suffers from the delay in information exchange among sensors and also from sensor reaction delays. This is because simplistic control strategies like Proportional Integral Differential (PID), that do not employ the look-ahead strategy, often fail to counterbalance these delays at real time. Hence, there is a need for more sophisticated interaction ...

Keywords: coopetition, model predictive control, video surveillance

18 SCAAT: incremental tracking with incomplete information



Greg Welch, Gary Bishop

August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available:  pdf(104.69 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Kalman filter, autocalibration, calibration, delay, feature tracking, latency, sensor fusion, virtual environments tracking

19 Energy efficiency: Latency of wireless sensor networks with uncoordinated power saving mechanisms



Olivier Dousse, Petteri Mannersalo, Patrick Thiran

May 2004 **Proceedings of the 5th ACM international symposium on Mobile ad hoc networks and computing**

Publisher: ACM Press

Full text available:  pdf(351.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider a wireless sensor network, where nodes switch between an active (on) and a sleep mode, to save energy. The basic assumptions are that the on/off schedules are completely uncoordinated and that the sensors are distributed according to a Poisson process and their communication ranges are larger or equal to their sensing ranges. Moreover, the durations of active and sleep periods are such that the number of active nodes at any particular time is so low that the network always ...

Keywords: continuum percolation, first passage percolation, sensor networks


20 A survey of image registration techniques



Lisa Gottesfeld Brown

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(5.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, motion ...

Keywords: image registration, image warping, rectification, template matching

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Progress in Energy and Combustion Science, Volume 29, Issue 2, 2003, Pages 155-191

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99. ☐ **Natural convection flow and heat transfer within a rectangular enclosure containing a vertical porous layer • ARTICLE**
International Journal of Heat and Mass Transfer, Volume 37, Issue 16, November 1994, Pages 2425-2438
M. Song and R. Viskanta
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100. ☐ **Improved procedure for wastewater biofilm removal and analysis • ARTICLE**

Colloids and Surfaces B: Biointerfaces, Volume 2, Issue 6, 29 July 1994, Pages 577-584
V. Pierzo, D. Bellahcen, D. Fontvieille, V. Lazarova, A. Huyard and J. Manem
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TITLE: System for estimating model parameters

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Tuken</u> , Taner	Cedar Falls	IA	US
Carey, David M.	Lino Lakes	MN	US

US-CL-CURRENT: 708/200

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TITLE: System for estimating model parameters

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Jul 27, 1999

US-PAT-NO: 5930762

DOCUMENT-IDENTIFIER: US 5930762 A

TITLE: Computer aided risk management in multiple-parameter physical systems

DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Masch; Vladimir A.	New Providence	NJ		

US-CL-CURRENT: 705/7; 705/8

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